

SAGAR SANJAY SHAH

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EDUCATION

George Washington University
Master of Science in Data Science

May 2026

St Francis Institute of Technology, Mumbai, India
Bachelor of Engineering in Information Technology with Distinction

June 2024
(GPA 3.2/4)

PROFESSIONAL EXPERIENCE

Tata BY Forage, Mumbai, India

July 2023 – August 2023

- Framed business scenarios and transformed data-driven insights into actionable strategies by building and maintaining Excel tools which streamlined data collection, analysis, and presentation, improving performance tracking and usability.
- Selected and created impactful visuals to communicate insights, leveraging advanced data visualization tools to convey complex information in a clear and compelling manner.
- Deployed statistical analyses and visualized large datasets to identify trends, patterns, and opportunities, enabling data-driven decision-making across business functions.
- Documented and standardized repeatable workflows, including web scraping methodologies, to ensure consistency, efficiency, and scalability in data management processes.
- Offered engaging presentations to stakeholders, translating technical analysis into practical insights to drive informed business strategies and decision-making.

Walmart BY Forage, Mumbai, India

August 2023 – August 2023

- Constructed, build, and maintained advanced simulation models using Autodesk software to emulate real-world software development processes, ensuring high accuracy and reliability in replicating workflows.
- Directed simulation analyses to identify bottlenecks and inefficiencies in software development workflows, proposing and implemented optimization strategies to refine performance and productivity.
- Collaborated with cross-functional teams to review project requirements and specifications, delivering tailored technological solutions that met or exceeded performance and quality benchmarks.
- Led team leveraging simulation-driven insights to streamline development processes, supporting data-driven decision-making and contributing to overall success of the project.

ACADEMIC PROJECTS

Battery swapping system for Electric Vehicles

- Engineered an innovative battery-swapping system designed to revolutionize electric vehicle charging by notably reducing wait times and enhancing user convenience.
- Optimize system's functionality and ensure seamless user experience, designing key components to enhance profitability.
- Utilized technologies such as a Battery Management System for monitoring battery health, sensors for real-time data collection, dynamic connectivity solutions for efficient communication between components, and the ESP8266 Wi-Fi module for remote access and monitoring.
- Demonstrated system's potential to accelerate electric vehicle adoption by offering a sustainable and user-friendly alternative to traditional charging stations.

Modernized Entry Systems with Contactless Door Solutions

- Engineered a modernized entry system that eliminates the need for physical keys, improves security, and accessibility for users.
- Crafted and carried out a contactless solution utilizing IR sensors for detection, wireless communication modules for secure data transmission, and Arduino Uno as central controller for processing user interactions.
- Executed rigorous testing and quality assurance to assure system's reliability and resilience across varied environments.
- Performed a scalable and customizable access control solution, addressing real-world requirements for improved security and standardize access in residential and commercial settings.

CERTIFICATIONS

- I achieved the Google Data Analytics course via Coursera, equipping myself with practical skills in data cleaning, visualization, and analysis to support data-driven business strategies.
- Developed expertise in data analysis and artificial intelligence by completing certifications in Basics of Exploratory Data Analysis, Python for Data Analysis, and Artificial Intelligence with Python through Great Learning.
- Strengthened technical proficiency with certifications in Introduction to R (Data Camp) and Python for Data Science (Alison), promoting effective data manipulation and analysis for diverse business needs.
- Finalized sustainability-focused courses, including Sustainability Challenges for the Planet and Employers, Foundational Sustainability Skills and Competencies, and careers in Sustainability through Coursera (Arizona State University), gaining a deep understanding of sustainability business practices and environmental challenges.

TECHNICAL SKILLS

- **Programming Language & Tools** – Proficient in Python, R, HTML, and software development tools (Arduino IDE, VS Code, SQL).
- **Data Analysis & Visualization** – Skilled in Data Manipulation (Python, R) and Data Visualization (Power BI, Matplotlib).
- **Artificial Intelligence & Machine Learning** – Experienced with AI/ML algorithms, including Supervised/Unsupervised Learning.
- **Embedded Systems & IOT** – Expertise in Microprocessor (Intel), Microcontrollers (Arduino), and IOT technologies and protocols.